



Online Data Sheet

인크리멘탈 옵티컬 로터리 엔코더 - Ø58mm

WDG 58N 시리즈

Wachendorff Automation

... systems and encoders

- Complete systems
- Industrial rugged encoders to suit your application
- Standard range and customer versions
- Maximum permissible loads
- 48-hour express production
- Made in Germany
- Worldwide distributor network

Encoder WDG I 58N

www.wachendorff-automation.com/wdgi58n

Industrie ROBUST

Encoder WDGI 58N



Resolution	
Max. pulses per revolution PPR	up to 25000 PPR
Mechanical Data	
Housing	
Flange	clamping flange
Flange material	aluminum
Housing cap	die cast aluminum, powder coated
Housing	Ø 58 mm
Cam mounting	pitch 69 mm
Shaft(s)	
Shaft material	stainless steel
Starting torque	approx. 1 Ncm at ambient temperature
Shaft	Ø 6 mm
Shaft length	L: 20 mm
Max. Permissible shaft loading radial	220 N
Max. Permissible shaft loading axial	120 N
Shaft	Ø 8 mm
Shaft length	L: 20 mm
Shaft	Ø 9.525 mm, Ø 3/8"
Shaft length	L: 22.3 mm
Max. Permissible shaft loading radial	220 N
Max. Permissible shaft loading axial	120 N
Shaft	Ø 10 mm
Shaft length	L: 20 mm
Max. Permissible shaft loading radial	220 N
Max. Permissible shaft loading axial	120 N
Bearings	
Bearings type	2 precision ball bearings
Nominale service life	1 x 10 ⁹ revs. at 100 % rated shaft load 1 x 10 ¹⁰ revs. at 40 % rated shaft load 1 x 10 ¹¹ revs. at 20 % rated shaft load
Max. operating speed	8000 rpm

1. IP67의 보호 기능 - 방수/방진 로터리엔코더
- Shaft sealing - IP65

2. 다양한 축 (Shaft) 사이즈 지원
- 6mm, 8mm, 3/8inch, 10mm

3. 산업 장비의 표준 사이즈 - 58mm
- 범용 적으로 사용 할 수 있음.

4. 옵티컬(Optical) 방식으로 고정밀, 고분해능
- MAX 25000PPR
- 고정밀 로봇 및 공작기계 사용 적합

5. CE 및 UL 인증 제품

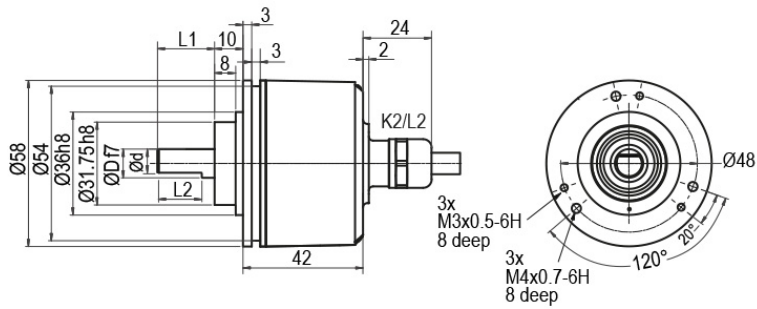
www.wachendorff-automation.com/wdgi58n

Machinery Directive: basic data safety integrity level	
MTTF _d	200 a
Mission time (TM)	25 a
Nominale service life (L10h)	1 x 10 ¹¹ revs. at 20 % rated shaft load and 8000 rpm
Diagnostic coverage (DC)	0 %
Electrical Data	
Power supply/Current consumption	4,75 VDC up to 5,5 VDC: typ. 100 mA
Power supply/Current consumption	5 VDC up to 30 VDC: typ. 70 mA
Power supply/Current consumption	10 VDC up to 30 VDC: typ. 100 mA
Output circuit	TTL TTL, RS422 compatible, inv. HTL HTL, inv. 1 Vpp sin/cos
Pulse frequency	TTL ≤ 5000 ppr: max. 200 kHz HTL ≤ 5000 ppr: max. 200 kHz TTL more than 1200 ppr: max. 2 MHz HTL more than 1200 ppr: max. 600 kHz 1 Vpp sin/cos: max. 100 kHz
Channels	AB ABN and inverted signals
Load	max. 40 mA / channel @ 1 Vpp sin/cos: min. 120 Ohm
Circuit protection	10 VDC up to 30 VDC, HTL only
Accuracy	
Phase offset	90° ± max. 7.5 % of the pulse length
pulse-/pause-ratio	≤5000 ppr: 50 % ± max. 7 % Output circuits F24, P24, F05, P05, 645: 50 % ± max. 10 %
General Data	
Weight	approx. 250 g
Connections	cable or connector outlet
Protection rating (EN 60529)	IP67, shaft sealed to IP65
Operating temperature	Connector: -20 °C up to +85 °C, cable: -20 °C up to +80 °C, (Option ACA: -40 °C up to +85 °C) 1 Vpp: -10 °C up to +70 °C
Storage temperature	Connector: -30 °C up to +85 °C, cable: -30 °C up to +80 °C, option ACA: -40 °C up to +85 °C
More Information	
General technical data and safety instructions http://www.wachendorff-automation.com/gtd	

Options

<http://www.wachendorff-automation.com/acc>

WDGI 58N: Cable connection K2, L2, axial, with 2 m cable



D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

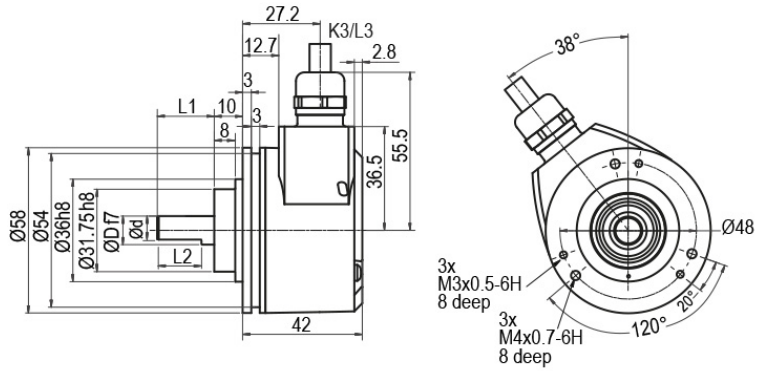
Description

ABN inv. poss.

K2	axial, shield not connected	•
L2	axial, shield connected to encoder housing	•

Assignments					
	K2, L2	K2, L2	K2, L2	K2, L2	L2
Circuit	G05, G24	F05, H05, F24, H24, H30	I05, I24, 524	P05, R05, P24, R24, 245, 645, R30	SIN
GND	WH	WH	WH	WH	WH
(+) Vcc	BN	BN	BN	BN	BN
A	GN	GN	GN	GN	GN
B	YE	YE	YE	YE	GY
N	GY	GY	GY	GY	-
Light reserve warning	PK	-	PK	-	-
A inv.	-	-	RD	RD	YE
B inv.	-	-	BK, (BU at ACA)	BK, (BU at ACA)	PK
N inv.	-	-	VT	VT	-
Shield	flex	flex	flex	flex	flex

WDGI 58N: Cable connection K3, L3, radial, with 2 m cable



D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

Description

ABN inv. poss.

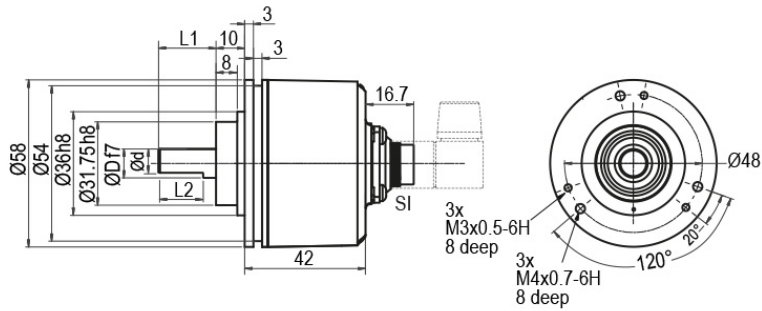
K3 radial, shield not connected

•

L3 radial, shield connected to encoder housing

•

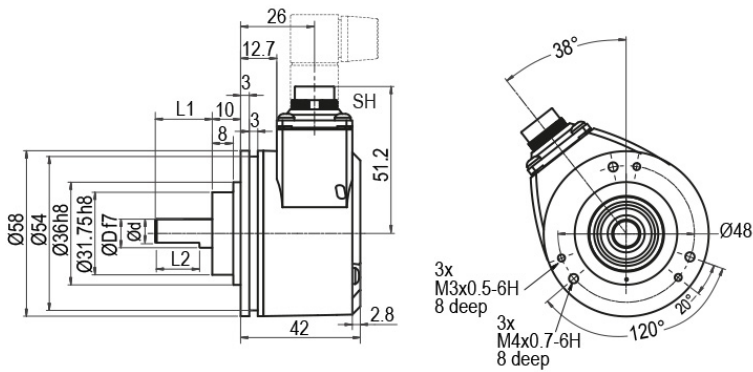
Assignments					
	K3, L3	K3, L3	K3, L3	K3, L3	L3
Circuit	G05, G24	F05, H05, F24, H24, H30	I05, I24, 524	P05, R05, P24, R24, 245, 645, R30	SIN
GND	WH	WH	WH	WH	WH
(+) Vcc	BN	BN	BN	BN	BN
A	GN	GN	GN	GN	GN
B	YE	YE	YE	YE	GY
N	GY	GY	GY	GY	-
Light reserve warning	PK	-	PK	-	-
A inv.	-	-	RD	RD	YE
B inv.	-	-	BK, (BU at ACA)	BK, (BU at ACA)	PK
N inv.	-	-	VT	VT	-
Shield	flex	flex	flex	flex	flex

WDGI 58N: Connector (M16x0.75) SI, axial, 5-, 6-, 8-, 12-pin


D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

Description	ABN inv. poss.
SI5 axial, 5-pin, Connector connected to encoder housing	-
SI6 axial, 6-pin, Connector connected to encoder housing	-
SI8 axial, 8-pin, Connector connected to encoder housing	•
SI12 axial, 12-pin, Connector connected to encoder housing	•

Assignments											
	SI5	SI6	SI6	SI8	SI8	SI8	SI12	SI12	SI12	SI12	SI12
	5-pin	6-pin	6-pin	8-pin	8-pin	8-pin	12-pin	12-pin	12-pin	12-pin	12-pin
Circuit	F05, H05, F24, H24, H30	G05, G24	F05, H05, F24, H24, H30	F05, H05, F24, H24, H30	P05, R05, P24, R24, R30, 245, 645	SIN	G05, G24	F05, H05, F24, H24, H30	I05, I24, 524	P05, R05, P24, R24, 245, 645, R30	SIN
GND	1	6	6	1	1	1	K, L	K, L	K, L	K, L	K, L
(+) Vcc	2	1	1	2	2	2	M, B	M, B	M, B	M, B	M, B
A	3	2	2	3	3	3	E	E	E	E	E
B	4	4	4	4	4	4	H	H	H	H	H
N	5	3	3	5	5	-	C	C	C	C	-
Light reserve warning	-	5	-	-	-	-	G	-	G	-	-
A inv.	-	-	-	-	6	6	-	-	F	F	F
B inv.	-	-	-	-	7	7	-	-	A	A	A
N inv.	-	-	-	-	8	-	-	-	D	D	-
n. c.	-	-	5	6, 7, 8	-	5, 8	A, D, F, J	A, D, F, G, J	J	G, J	D, G, J
Shield	-	-	-	-	-	-	-	-	-	-	-

WDGI 58N: Connector (M16x0.75) SH, radial, 5-, 6-, 8-, 12-pin


D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

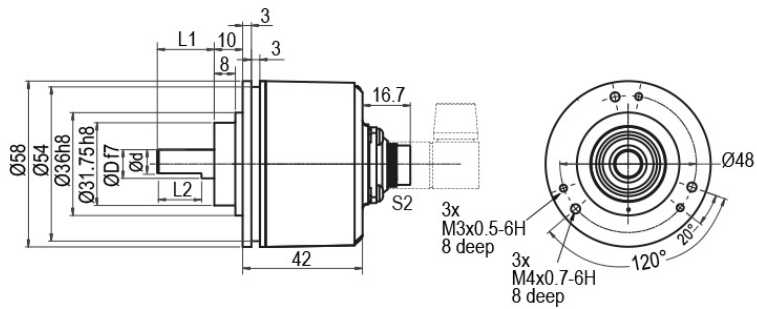
Description
ABN inv. poss.

SH5	radial, 5-pin, Connector connected to encoder housing	-
SH6	radial, 6-pin, Connector connected to encoder housing	-
SH8	radial, 8-pin, Connector connected to encoder housing	•
SH12	radial, 12-pin, Connector connected to encoder housing	•

Assignments

	SH5	SH6	SH6	SH8	SH8	SH8	SH12	SH12	SH12	SH12	SH12
	5-pin	6-pin	6-pin	8-pin	8-pin	8-pin	12-pin	12-pin	12-pin	12-pin	12-pin
Circuit	 F05, H05, F24, H24, H30	 G05, G24	 F05, H05, F24, H24, H30	 F05, H05, F24, H24, H30	 P05, R05, P24, R24, R30, 245, 645	 SIN	 G05, G24	 F05, H05, F24, H24, H30	 I05, I24, 524	 P05, R05, P24, R24, 245, 645, R30	 SIN
GND	1	6	6	1	1	1	K, L	K, L	K, L	K, L	K, L
(+) Vcc	2	1	1	2	2	2	M, B	M, B	M, B	M, B	M, B
A	3	2	2	3	3	3	E	E	E	E	E
B	4	4	4	4	4	4	H	H	H	H	H
N	5	3	3	5	5	-	C	C	C	C	-
Light reserve warning	-	5	-	-	-	-	G	-	G	-	-
A inv.	-	-	-	-	6	6	-	-	F	F	F
B inv.	-	-	-	-	7	7	-	-	A	A	A
N inv.	-	-	-	-	8	-	-	-	D	D	-
n. c.	-	-	5	6, 7, 8	-	5, 8	A, D, F, J	A, D, F, G, J	J	G, J	D, G, J
Shield	-	-	-	-	-	-	-	-	-	-	-

WDGI 58N: Connector (M16x0.75) S2, axial, 7-pin



D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

Description

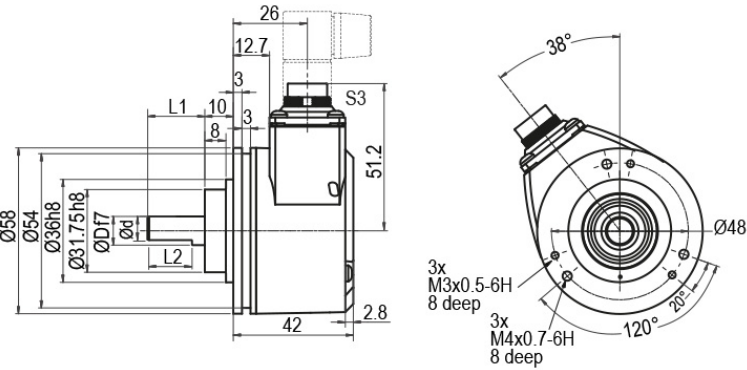
ABN inv. poss.

S2 axial, 7-pin, Connector connected to encoder housing

-

Assignments		
	S2	S2
	7-pin	7-pin
Circuit	G05, G24	F05, H05, F24, H24, H30
GND	1	1
(+) Vcc	2	2
A	3	3
B	4	4
N	5	5
Light reserve warning	6	-
A inv.	-	-
B inv.	-	-
N inv.	-	-
n. c.	7	6, 7
Shield	-	-

WDGI 58N: Connector (M16x0.75) S3, radial, 7-pin

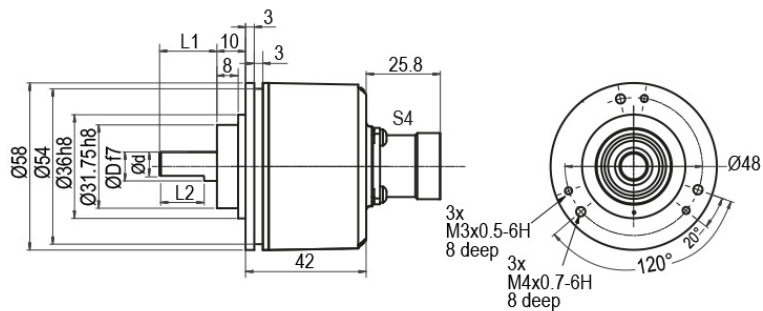


D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

Description	ABN inv. poss.
S3 radial, 7-pin, Connector connected to encoder housing	-

Assignments		
	S3	S3
	7-pin	7-pin
Circuit	G05, G24	F05, H05, F24, H24, H30
GND	1	1
(+) Vcc	2	2
A	3	3
B	4	4
N	5	5
Light reserve warning	6	-
A inv.	-	-
B inv.	-	-
N inv.	-	-
n. c.	7	6, 7
Shield	-	-

WDGI 58N : Connector (M23) S4, axial, 12-pin



D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

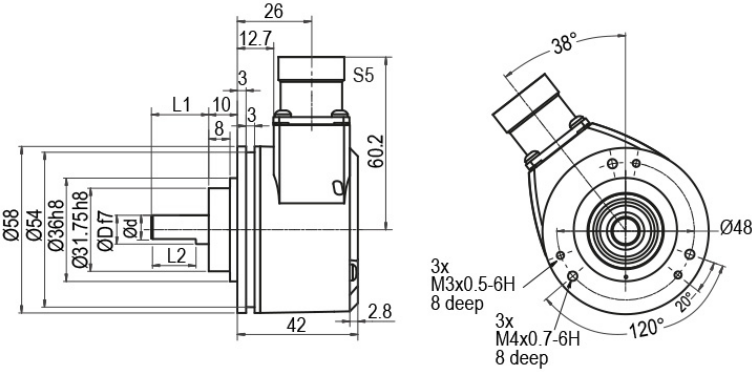
Description

ABN inv. poss.

S4 axial, 12-pin, Connector connected to encoder housing

•

Assignments					
	S4	S4	S4	S4	S4
	12-pin	12-pin	12-pin	12-pin	12-pin
Circuit	G05, G24	F05, H05, F24, H24, H30	I05, I24, 524	P05, R05, P24, R24, 245, 645, R30	SIN
GND	10	10	10	10	10
(+) Vcc	12	12	12	12	12
A	5	5	5	5	5
B	8	8	8	8	8
N	3	3	3	3	-
Light reserve warning	11	-	11	-	-
A inv.	-	-	6	6	6
B inv.	-	-	1	1	1
N inv.	-	-	4	4	-
n. c.	1, 2, 4, 6, 7, 9	1, 2, 4, 6, 7, 9, 11	2, 7, 9	2, 7, 9, 11	2, 3, 4, 7, 9, 11
Shield	-	-	-	-	-

WDGI 58N: Connector (M23) S5, radial, 12-pin

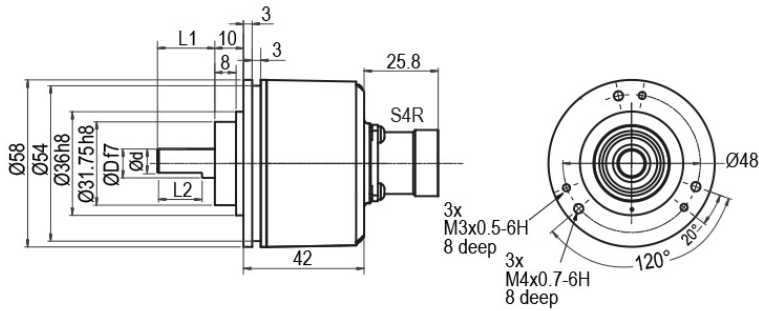
D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

Description**ABN inv. poss.****S5** radial, 12-pin, Connector connected to encoder housing

•

Assignments					
	S5	S5	S5	S5	S5
	12-pin	12-pin	12-pin	12-pin	12-pin
Circuit	G05, G24	F05, H05, F24, H24, H30	I05, I24, 524	P05, R05, P24, R24, 245, 645, R30	SIN
GND	10	10	10	10	10
(+) Vcc	12	12	12	12	12
A	5	5	5	5	5
B	8	8	8	8	8
N	3	3	3	3	-
Light reserve warning	11	-	11	-	-
A inv.	-	-	6	6	6
B inv.	-	-	1	1	1
N inv.	-	-	4	4	-
n. c.	1, 2, 4, 6, 7, 9	1, 2, 4, 6, 7, 9, 11	2, 7, 9	2, 7, 9, 11	2, 3, 4, 7, 9, 11
Shield	-	-	-	-	-

WDGI 58N: Connector (M23) S4R, axial, 12-pin (clockwise)



D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

Description

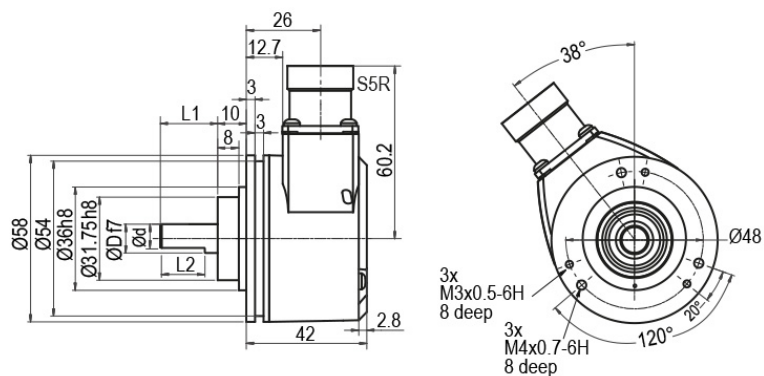
ABN inv. poss.

S4R axial, 12-pin, Connector connected to encoder housing

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Assignments					
	S4R 12-pin	S4R 12-pin	S4R 12-pin	S4R 12-pin	S4R 12-pin
Circuit	G05, G24	F05, H05, F24, H24, H30	I05, I24, 524	P05, R05, P24, R24, 245, 645, R30	SIN
GND	10	10	10	10	10
(+) Vcc	12	12	12	12	12
A	5	5	5	5	5
B	8	8	8	8	8
N	3	3	3	3	-
Light reserve warning	11	-	11	-	-
A inv.	-	-	6	6	6
B inv.	-	-	1	1	1
N inv.	-	-	4	4	-
n. c.	1, 2, 4, 6, 7, 9	1, 2, 4, 6, 7, 9, 11	2, 7, 9	2, 7, 9, 11	2, 3, 4, 7, 9, 11
Shield	-	-	-	-	-

WDGI 58N: Connector (M23) S5R, radial, 12-pin (clockwise)



D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

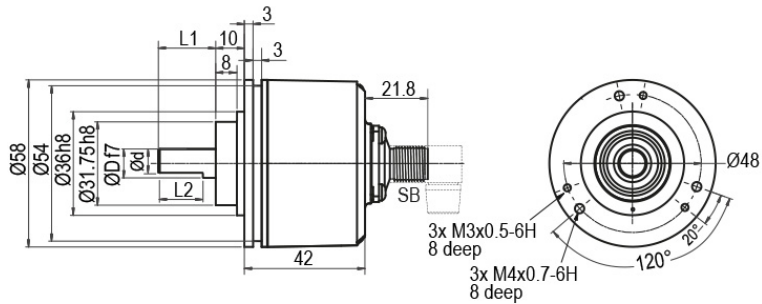
Description

ABN inv. poss.

S5R radial, 12-pin, Connector connected to encoder housing

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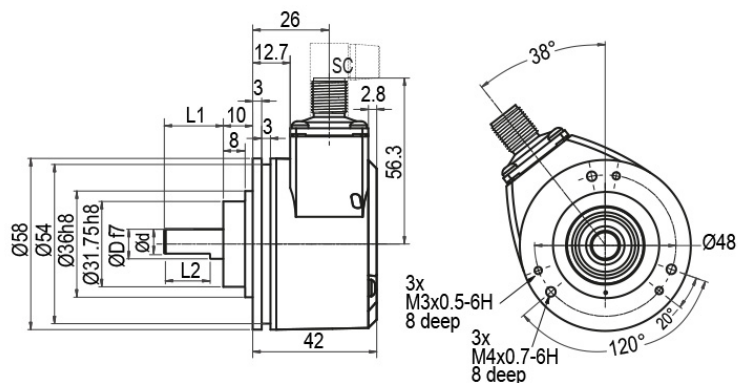
Assignments					
	S5R	S5R	S5R	S5R	S5R
	12-pin	12-pin	12-pin	12-pin	12-pin
Circuit	G05, G24	F05, H05, F24, H24, H30	I05, I24, 524	P05, R05, P24, R24, 245, 645, R30	SIN
GND	10	10	10	10	10
(+) Vcc	12	12	12	12	12
A	5	5	5	5	5
B	8	8	8	8	8
N	3	3	3	3	-
Light reserve warning	11	-	11	-	-
A inv.	-	-	6	6	6
B inv.	-	-	1	1	1
N inv.	-	-	4	4	-
n. c.	1, 2, 4, 6, 7, 9	1, 2, 4, 6, 7, 9, 11	2, 7, 9	2, 7, 9, 11	2, 3, 4, 7, 9, 11
Shield	-	-	-	-	-

WDGI 58N: Sensor-connector (M12x1) SB, axial, 4-, 5-, 8-, 12-pin


D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

Description	ABN inv. poss.
SB4 axial, 4-pin, Connector connected to encoder housing	-
SB5 axial, 5-pin, Connector connected to encoder housing	-
SB8 axial, 8-pin, Connector connected to encoder housing	•
SB12 axial, 12-pin, Connector connected to encoder housing	•

Assignments									
	SB4	SB5	SB8	SB8	SB8	SB12	SB12	SB12	SB12
	4-pin	5-pin	8-pin	8-pin	8-pin	12-pin	12-pin	12-pin	12-pin
Circuit	F05, H05, F24, H24, H30	F05, H05, F24, H24, H30	F05, H05, F24, H24, H30	P05, R05, P24, R24, R30, 245, 645	SIN	G05, G24	F05, H05, F24, H24, H30	I05, I24, 524	P05, R05, P24, R24, 245, 645, R30
GND	3	3	1	1	1	3	3	3	3
(+) Vcc	1	1	2	2	2	1	1	1	1
A	2	4	3	3	3	4	4	4	4
B	4	2	4	4	5	6	6	6	6
N	-	5	5	5	-	8	8	8	8
Light reserve warning	-	-	-	-	-	5	-	5	-
A inv.	-	-	-	6	4	-	-	9	9
B inv.	-	-	-	7	6	-	-	7	7
N inv.	-	-	-	8	-	-	-	10	10
n. c.	-	-	6, 7, 8	-	7, 8	2, 7, 9, 10, 11, 12	2, 5, 7, 9, 10, 11, 12	2, 11, 12	2, 5, 11, 12
Shield	-	-	-	-	-	-	-	-	-

WDGI 58N: Sensor-connector (M12x1) SC, radial, 4-, 5-, 8-, 12-pin


D = 6h7	L1 = 10	d = 5.5	L2 = 9
D = 8h8	L1 = 20	d = 7.5	L2 = 15
D = 9.525h7 [0.375]	L1 = 22.3 [0.878]	d = 9 [0.345]	L2 = 20.3 [0.799]
D = 10f7	L1 = 20	d = 9	L2 = 15

Description
ABN inv. poss.
SC4 radial, 4-pin, Connector connected to encoder housing

-

SC5 radial, 5-pin, Connector connected to encoder housing

-

SC8 radial, 8-pin, Connector connected to encoder housing

•

SC12 radial, 12-pin, Connector connected to encoder housing

•

Assignments

	SC4	SC5	SC8	SC8	SC8	SC12	SC12	SC12	SC12
	4-pin	5-pin	8-pin	8-pin	8-pin	12-pin	12-pin	12-pin	12-pin
Circuit	F05, H05, F24, H24, H30	F05, H05, F24, H24, H30	F05, H05, F24, H24, H30	P05, R05, P24, R24, R30, 245, 645	SIN	G05, G24	F05, H05, F24, H24, H30	I05, I24, 524	P05, R05, P24, R24, 245, 645, R30
GND	3	3	1	1	1	3	3	3	3
(+) Vcc	1	1	2	2	2	1	1	1	1
A	2	4	3	3	3	4	4	4	4
B	4	2	4	4	5	6	6	6	6
N	-	5	5	5	-	8	8	8	8
Light reserve warning	-	-	-	-	-	5	-	5	-
A inv.	-	-	-	6	4	-	-	9	9
B inv.	-	-	-	7	6	-	-	7	7
N inv.	-	-	-	8	-	-	-	10	10
n. c.	-	-	6, 7, 8	-	7, 8	2, 7, 9, 10, 11, 12	2, 5, 7, 9, 10, 11, 12	2, 11, 12	2, 5, 11, 12
Shield	-	-	-	-	-	-	-	-	-

Options

Low-friction bearings

Order key

The encoder WDGI 58N is also available as a particularly smooth-running low-friction encoder. The starting torque is thereby changed to ≤ 0.5 Ncm and the protection class at the shaft input to IP50.

AAC

IP67 Shafts sealed to IP67 (not for 1 Vpp Sin/Cos)

Order key

The encoder WDGI 58N can be supplied in a full IP67 version.

AAO

Max. RPM: 3500 rpm

Permitted Shaft-Loading, axial: 100 N

Permitted Shaft-Loading, radial: 110 N

Max. PPR: 2500 ppr

Starting-torque: approx. 4 Ncm at ambient temperature

Low temperature

Order key

The encoder WDGI 58N with the output circuit types F24, G24, H24, I24, P24, R24, F05, G05, H05, I05, P05, R05, 245, 524, 645 is also available with the extended temperature range -40 °C up to +85 °C [-40 °F up to +185 °F] (measured at the flange).

ACA

Pressure equalising membrane

Order key

The WDGI 58N shaft encoder is also optionally available with a pressure equalising membrane. This prevents water from penetrating into the encoder housing in the case of high air humidity.

ACR

The IP67 protection level, temperature range and salt spray resistance are maintained.

Resistant to chemicals and solvents in accordance with DIN EN ISO 2812-1.

Cable length

Order key

The encoder WDGI 58N can be supplied with more than 2 m cable. The maximum cable length depends on the supply voltage and the frequency; see www.wachendorff-automation.com/atd

XXX = Decimeter

Please extend the standard order code with a three figure number, specifying the cable length in decimetres.

Example: 5 m cable = 050

Example Order No.	Type				Your encoder
WDGI 58N	WDGI 58N				WDGI 58N
	Shaft				
10	06; 08; 4Z= Ø 9.525 mm, Ø 3/8"; 10				
	Pulses per revolution PPR:				
5000	2, 5, 10, 15, 20, 24, 25, 30, 36, 40, 48, 50, 60, 64, 72, 87, 90, 100, 120, 125, 127, 128, 150, 160, 180, 200, 216, 236, 240, 250, 254, 256, 300, 314, 320, 360, 400, 500, 512, 571, 600, 625, 720, 750, 768, 800, 810, 900, 1000, 1024, 1200, 1250, 1270, 1440, 1500, 1800, 2000, 2048, 2400, 2500, 3000, 3600, 4000, 4096, 4685, 5000, 10000, 12500, 20000, 25000 1 Vpp Sin/Cos only 1024, 2048 Other PPRs on request				
	Channels:				
ABN	AB, ABN (SIN: AB)				
	Output circuit				
G24	Resolution PPR	Power supply VDC	Output circuit	Light reserve warning	Order key
	up to 2500	5 - 30	HTL	-	H30
		5 - 30	HTL inverted	-	R30
	up to 5000	4.75 - 5.5	TTL	•	G05
		4.75 - 5.5	TTL	-	H05
		4.75 - 5.5	TTL, RS422 comp., inverted	•	I05
		4.75 - 5.5	TTL, RS422 comp., inverted	-	R05
		10 - 30	HTL	•	G24
		10 - 30	HTL	-	H24
		10 - 30	HTL inverted	•	I24
		10 - 30	HTL inverted	-	R24
		10 - 30	TTL, RS422 comp., inverted	•	524
		10 - 30	TTL, RS422 comp., inverted	-	245
	(higher frequency) 1200 up to 25000	4.75 - 5.5	TTL	-	F05
		4.75 - 5.5	TTL, RS422 comp., inverted	-	P05
		10 - 30	HTL	-	F24
		10 - 30	HTL inverted	-	P24
		10 - 30	TTL, RS422 comp., inverted	-	645
	1024, 2048	4.75 - 5.5	1 Vpp sin/cos	-	SIN

Electrical connections									
K2	Description						ABN inv. poss.	Order key	
	Cable: length (2 m standard, WDG 58T: 1 m)								
	axial, shield not connected						•	K2	
	axial, shield connected to encoder housing						•	L2	
	radial, shield not connected						•	K3	
	radial, shield connected to encoder housing						•	L3	
	Connector: (shield connected to encoder housing)								
	connector, M16x0.75, 5-pin, axial						-	SI5	
	connector, M16x0.75, 5-pin, radial						-	SH5	
	connector, M16x0.75, 6-pin, axial						-	SI6	
	connector, M16x0.75, 6-pin, radial						-	SH6	
	connector, M16x0.75, 8-pin, axial						•	SI8	
	connector, M16x0.75, 8-pin, radial						•	SH8	
	connector, M16x0.75, 12-pin, axial						•	SI12	
	connector, M16x0.75, 12-pin, radial						•	SH12	
	connector, M16x0.75, 7-pin, axial						-	S2	
	connector, M16x0.75, 7-pin, radial						-	S3	
	connector, M23, 12-pin, axial						•	S4	
	connector, clockwise pin count, M23, 12-pin, axial						•	S4R	
	connector, M23, 12-pin, radial						•	S5	
	connector, clockwise pin count, M23, 12-pin, radial						•	S5R	
	sensor-connector, M12x1, 4-pin, axial						-	SB4	
	sensor-connector, M12x1, 4-pin, radial						-	SC4	
	sensor-connector, M12x1, 5-pin, axial						-	SB5	
	sensor-connector, M12x1, 5-pin, radial						-	SC5	
	sensor-connector, M12x1, 8-pin, axial						•	SB8	
	sensor-connector, M12x1, 8-pin, radial						•	SC8	
	sensor-connector, M12x1, 12-pin, axial						•	SB12	
	sensor-connector, M12x1, 12-pin, radial						•	SC12	
Options									
	Description						Order key		
	Low-friction bearings						AAC		
	IP67						AAO		
	Low temperature						ACA		
	Pressure equalising membrane						ACR		
	Without option						Empty		
	Cable length						XXX = Decimeter		
Example Order No.= WDGi 58N 10 5000 ABN G24 K2 WDGi 58N Your encoder									

Example Order No. =	WDGI 58N	10	5000	ABN	G24	K2		WDGI 58N							Your encoder
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For further information please contact our local distributor.
Here you find a list of our distributors worldwide.
http://www.wachendorff-automation.com/distributors_worldwide.html

CREKEN

주식회사 크레켄

경기도 성남시 중원구 사기막골로 124
SKn테크노파크 메가동 514호 우편번호:13207

Phone: 031) 608-3200 Fax: 031) 776-2320
E-Mail: sales@creken.co.kr
www.creken.co.kr



Wachendorff Automation GmbH & Co. KG
Industriestrasse 7 • D-65366 Geisenheim

Phone: +49 67 22 / 99 65 25
Fax: +49 67 22 / 99 65 70
E-Mail: wdg@wachendorff.de
www.wachendorff-automation.de

